



Data Science Competence Center (DSCC)

Summary



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Federal Department of Home Affairs FDHA
Federal Statistical Office FSO

Vision

We use data science and develop skills for the public good in the whole of Switzerland.

Mission

We work at the crossroads between data science and artificial intelligence. We build skills and apply the appropriate methods, techniques and practices to obtain a new understanding and to improve decision-making for the public good.

Core values

Great importance is attached to the core values of information security, data protection, data security, data governance, non-discrimination, explainability, transparency, reproducibility, neutrality, objectivity, ethical treatment of data and results and public confidence in the implementation of all the data science services. For example, the results of the individual projects (as far as permitted by data protection laws and other provisions) are documented in a transparent manner and made available.

Clients and topic areas

We only offer our services to the Swiss public sector and administrations (Confederation, cantons and communes). In this framework, we limit ourselves to the topics of public policy and public governance in Switzerland.

Further information

www.experimental.bfs.admin.ch

Our services

As a service provider, the Data Science Competence Center will provide services within the administration in the field of data science – “Data Science as a Service” (DSaaS). There are the following possible services in the field of data science:

Basic services – S0

Developing quality standards, guidelines on respecting data protection and basic infrastructures (“sandboxes”) for data science applications.

Consulting – S1

Consulting related to strategical, tactical and operational application of (for the federal administration) innovative data science methods and procedures (e.g. potential analysis of methods from advanced statistics, machine learning and the field of artificial intelligence).

Methodological support – S2

Methodological support (coaching – “training on the job”) in executing relevant application-oriented externally procured or internal projects by Offices and/or transferring concrete results and findings from these projects into existing administrative processes (if required).

Project execution – S3

Complete execution (realisation) of relevant data science requests.

Training – S4

Application-oriented training sessions (training – “training off the job”) on data science methods, techniques and practices and the necessary (IT) technologies and tools.

Our team is our strength

We see data science as a **team sport**.

We are a **team of scientists, developers and business analysts** with an excellent academic background in mathematics, statistics, data science, computer science, decision making and data engineering.

We have **long proven experience** in providing services to the public sector and the federal and cantonal offices associated with the Swiss statistical system.

We actively participate in UN, UNECE and Eurostat **research project initiatives**, to which we are regularly invited to present our work.

We offer our services in **French, German and English**.

Data science in brief

Data science is the science of learning from data (or making sense of data), with the aim of gaining insights from data in order to facilitate data-driven decision-making. Data science covers the entire process of problem formulation, data collection, data selection, data preparation, data analysis, evaluation, interpretation, communication and provision of the findings. At the heart of data science is thus a problem-solving process and a process of continuous improvement that aims to solve complex, unstructured and data-rich problems through the application of innovative data science methods (e.g. methods from machine learning and the field of artificial intelligence), techniques and practices.

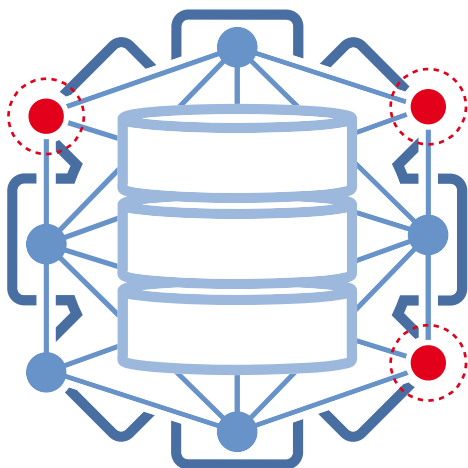


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Data science

Learning from data

(making sense of data)!

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